

Claims

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1. Process for displaying a composite object in a markup language page, said image
composing at least two cells with a first cell containing an image and a second cell
containing textual information, said at least two cells being arranged in a table for
10 the purpose of building a composite image wherein said textual information can be
separately modified.

2. Process for displaying a composite object in accordance with claim 1
characterised in that each of said at least two cells is associated with different files
15 in order to produce a composite image having different states in accordance with
the position of the cursor relative to said object.

3. Process for displaying a composite object in accordance with claim 2
characterised in that each said at least two cells is associated with a first file, a
20 second and a third file, said first file corresponding to the normal state of the object,
said second file corresponding to a state where the cursor is moving over said
object, and said third file correspond to the state of the selection of said object by
the cursor.

25 4. Process for decomposing an image of a graphic object to be displayed within a
Hyper Text Markup Language (HTML) page comprising the steps of:

producing a first image file corresponding to a superior left corner (111)
corresponding to a first variant portion of said object

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producing a second image file corresponding to a superior right corner (112)
corresponding to a second variant portion of the image;

producing a third image file corresponding to an inferior left corner (113) corresponding to a third variant portion of said image;

producing a fourth image file corresponding to an inferior right corner (114) corresponding to a fourth variant portion of said image;

producing a fifth image file, corresponding to an invariant n-pixel wide portion of the image located between said superior left and said superior right corners;

producing a sixth image file corresponding to an invariant n-pixel wide portion of the image located said superior left and said inferior left corners;

producing a seventh image file corresponding to an invariant n-pixel wide portion of the image located said superior right and said inferior right corners;

producing a eighth image file corresponding to an invariant n-pixel wide portion of the image located said inferior left and said inferior right corners;

5 Process according to claim 4 characterised in that it involves the step of:

- (a) computing the middle of said graphical object;
- (b) extracting a first vertical sample of n pixel wide, which passes through said middle;
- (c) determining the next adjacent sample located on the right and comparing it to said first vertical sample;
- (d) repeating (c) until the next adjacent sample located on the right is different than the first vertical sample, and setting the boundary of the right corners of the variant portions of the object,
- (e) determining the next adjacent sample located on the left and comparing it to the first vertical sample;
- (f) repeating step (e) as long as the next adjacent sample is different to the first vertical sample, and setting the left boundary of the left corners of the variant portions of the objects;

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- (g) extracting a second horizontal sample of n pixel wide which passes through said middle of the object;
 - (h) determining the next adjacent sample located upward and comparing it to said second horizontal sample;
 - 5 - (i) repeating (h) until the next adjacent sample located upward is different than said second horizontal sample, and setting the boundary of the superior left and right corners of the variant portions of the object,
 - (j) determining the next adjacent sample located downward and comparing it to said second horizontal sample;
 - 10 - (k) repeating step (j) as long as the next adjacent sample is different to said second horizontal sample, and setting the boundary of the inferior left and right corners of the objects;
 - using said boundaries for deriving said first, second, third , fourth, fifth, sixth, seventh and eighth image files.

15 **6.** Process according to claim 5 characterised in that it displays a graphical user interface for the purpose of allowing the user to enter a manual determination of the left, right , up and down boundaries of said objects, for the purpose of deriving the eight different image files.

20 **7.** Process for automatically displaying graphical objects, such as graphical buttons for instance, in an HTML page, characterized in that it involves the steps of constructing an HTML page where each graphical object or button is represented by a set of 3 rows and three columns forming 9 elementary cells, and said HTML table
25 is created with a cellpadding set to zero, a cellspacing set to zero and, at last, a border set to zero

8. Process according to claim 7 characterized in that the structure of said table consists of:

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- a first row having
 - a first cell for displaying the first top left corner (111) of said graphical object;
 - a second cell for displaying the upper vertical portion (116) of a vertical slice of said graphical object,

- a first cell for displaying a left portion (115) of a horizontal slice of said graphical object;

- a second cell for displaying the textual information which is to be incorporated within said graphical object;

5 - a third cell for displaying the right portion (117) of an horizontal slice of said graphical object;

- a third row having:

- a first cell for displaying the bottom left corner (113) of the graphical object;

10 - a second cell for displaying the lower portion (118) of a vertical slice of said graphical object;

- a third cell for displaying the bottom right corner (114) of said graphical object.

15 **11. Process for translating an HTML page comprising a set of graphical objects**
associated with textual information, said process involving the steps of:

- identifying said graphical objects,

20 - analysing each of said graphical objects for deriving, for each object, a set of eight portions which corresponds to four corners and two vertical top and bottom sample and two horizontal left and right portions of said graphical object;

- constructing an HTML page having a 3x3 structure, having a set of 3 rows and three columns forming 9 elementary cells, with a cellpadding set to zero, a cellspacing set to zero and, at last, a border set to zero;

25 - extracting said textual information from the original HTML page and inserting it within the second cell of the second row;

- inserting in each of the other cells one corresponding portion of said eight portions of said graphical objects.

30 **12.** Process for displaying a HTML page translated in accordance with the process of claim 8 and for replacing the eight cells of said 3x3 tables filled with graphical information with corresponding images stored within local files in the Wireless Application Protocol terminal.